

Device/PLC Connection Manuals



About the Device/PLC Connection Manuals

Prior to reading these manuals and setting up your device, be sure to read the "Important: Prior to reading the Device/PLC Connection manual" information. Also, be sure to download the "Preface for Trademark Rights, List of Units Supported, How to Read Manuals and Documentation Conventions" PDF file. Furthermore, be sure to keep all manual-related data in a safe, easy-to-find location.

A Yasukawa Electric

A.1 Maximum Number of Consecutive Device Address

The following lists the maximum number of consecutive addresses that can be read by each PLC. Refer to these tables to utilize *Block Transfer*.



Note: When the device is setup using the methods below, the Data Communication Speed declines by the number of times the device is read.

- When consecutive addresses exceed the maximum data number range
- When an address is designated for *division*
- When device types are different

To speed up data communication, plan the tag layout in screen units, as consecutive devices. (Includes the Alarm and Trend screens.)

■ PLC

<Memocon-SC Series (includes Micro)>

Device	Max. No. of Consecutive Address
Coil (Output/Internal)	250 Words
Input Relay	
Link Coil D	128 Words
Input Register	125 Words
Output/Latch Register	
Link Register R	
Constant Register	
Extended Register	

<PROGIC-8 Series>

Device	Max. No. of Consecutive Address
Output Coil O	250 Words
Input Relay I	
Internal Coil N	
Link Coil D	128 Words
Data Register W	125 Words
Input Register D	
Link Register R	

<MP900/ CP-9200SH Series>

Device	Max. No. of Consecutive Address
Output Coil	125 Words
Input Relay	
Special Latch Register	
Input Register	

<Control Pack Series>

Device	Max. No. of consecutive Address
Input Coil O	250 Words
Output Register	
System Register	
System Register	125 Words
Data Register	
Common Register	
Input Register	
Output Register	

<MP2300 Series>

Device	Max. No. of Consecutive Addresses
Coil	125 Words
Input Relay	
Special Latch Register	
Input Register	

■ Inverter

Device	Max. No. of Consecutive Addresses
Bit Register	16 Words
Register	

A.2**Device Codes and Address Codes**

Device codes and address codes are used to specify indirect addresses for the E-tags or K-tags.

The word addresses of data to be displayed are coded and stored in the word address specified by the E-tags and K-tags. (Code storage is done either by the PLC, or with T-tag and K-tags)

■ PLC

<Memocon-SC Series (U84/84J/U84S/GL40S/GL60H/GL70H/GL60S)>

	Device	Word Address	Device code (HEX)	Address code
Word Device	Input Register	30001-	1240	Save as word address value minus 30001.
	Output/Keep Register	40001-	0040	Save as word address value minus 40001.
	Link Register	R0001-	4840	Save as word address value minus 1.
	Constant Register	31001-	1440	Save as word address value minus 31001.
	Extended Register	A0000-	1040	Word Address
	LS area	LS0000-	4040	Word Address

<Memocon-SC Series (GL120/GL130)>

	Device	Word Address	Device code (HEX)	Address code
Word Device	Input Register	300001-	1240	Save as word address value minus 30001.
	Output Register	400001-	0040	Save as word address value minus 40001.
	Keep Register	400513-	0040	Save as word address value minus 40001.
	Constant Register	700001-	X	X
	LS area	LS0000-	4040	Word Address

<PROGIC-8 Series>

	Device	Word Address	Device code (HEX)	Address code
Word Device	Data Register	W1~	0040	Save as word address value minus 1.
	Input Register	Z1~	1240	Save as word address value minus 1.
	Link Register	R1~	4840	Save as word address value minus 1.
	LS area	LS0000~	4040	Word Address

<Control Pack Series>

	Device	Word Address	Device code (HEX)	Address code	
Word Device	Input Register	49744~	0040	Save as word address value minus 40001.	
	Output Register	49872~	0040	Save as word address value minus 40001.	
	System Register	30001~	1240	Save as word address value minus 30001.	
	Data Register		31001~ (C.P-9200H only)	1440	Save as word address value minus 3101.
			40001~	0040	Save as word address value minus 40001.
	Common Register	42049~	0040	Save as word address value minus 40001.	
	LS area	LS0000~	4040	Word Address	

<Memocon Micro>

	Device	Word Address	Device code (HEX)	Address code
Word Device	Input Register	30001~	1240	Save as word address value minus 30001.
	Output/Keep Register	40001~	0040	Save as word address value minus 40001.
	LS area	LS0000~	4040	Word Address

<MP900/CP200SH Series>

	DEVICE	WORD ADDRESS	DEVICE CODE (HEX)	ADDRESS CODE
Word Addresses	COIL	GMB0000-	0x9000	Word Address value
	INPUT RELAY	GIB0000 -	0x8000	Word Address value
	HOLD REGISTER	GMW0000 -	0x0200	Word Address value
	HOLD REGISTER	GMW1024 -	0x0400	Word Address -1024 value
	HOLD REGISTER	GMW2048 -	0x0600	Word Address -2048 value
	HOLD REGISTER	GMW3072 -	0x0800	Word Address -3072 value
	HOLD REGISTER	GMW4096 -	0x0A00	Word Address -4096 value
	HOLD REGISTER	GMW5120 -	0x0C00	Word Address -5120 value
	HOLD REGISTER	GMW6144 -	0x0E00	Word Address -6144 value
	HOLD REGISTER	GMW7168 -	0x1000	Word Address -7168 value
	HOLD REGISTER	GMW8192 -	0x1200	Word Address -8192 value
	HOLD REGISTER	GMW9216 -	0x1400	Word Address -9216 value
	INPUT REGISTER	GIW0000 -	0x2000	Word Address value
	INPUT REGISTER	GIW0400 -	0x2200	Word Address -1024 value
	INPUT REGISTER	GIW0800 -	0x2400	Word Address -2048 value
	INPUT REGISTER	GIW0C00 -	0x2600	Word Address -3072 value
	INPUT REGISTER	GIW1000 -	0x2800	Word Address -4096 value
	LS	0 -	0x4000	Word Address

<MP2300 Series>

Device	Word Address	Device Address	Address Code
Coil	GMB0000 -	0x9000	Word Address
	GMB1024 -	0x9200	Word Address - 1024
	GMB2048 -	0x9400	Word Address - 2048
	GMB3072 -	0x9600	Word Address - 3072
Input Relay	GIB0000 -	0x8000	Word Address
	GIB0400 -	0x9800	Word Address - 1024
	GIB0800 -	0x9A00	Word Address - 2048
	GIB0C00 -	0x9C00	Word Address - 3072
Special Latch Register	GMW00000 -	0x0200	Word Address
	GMW01024 -	0x0400	Word Address - 1024
	GMW02048 -	0x0600	Word Address - 2048
	GMW03072 -	0x0800	Word Address - 3072
	GMW04096 -	0x0A00	Word Address - 4096
	GMW05120 -	0x0C00	Word Address - 5120
	GMW06144 -	0x0E00	Word Address - 6144
	GMW07168 -	0x1000	Word Address - 7168
	GMW08192 -	0x1200	Word Address - 8192
	GMW09216 -	0x1400	Word Address - 9216
	GMW10240 -	0x1600	Word Address - 10240
	GMW11264 -	0x1800	Word Address - 11264
	GMW12288 -	0x1A00	Word Address - 12288
	GMW13312 -	0x1C00	Word Address - 13312
	GMW14336 -	0x1E00	Word Address - 14336
	GMW15360 -	0x2A00	Word Address - 15360
	GMW16384 -	0x2C00	Word Address - 16384
	GMW17408 -	0x2E00	Word Address - 17408
	GMW18432 -	0x3000	Word Address - 18432
	GMW19456 -	0x3200	Word Address - 19456
	GMW20480 -	0x3400	Word Address - 20480
	GMW21504 -	0x3600	Word Address - 21504
	GMW22528 -	0x3800	Word Address - 22528
	GMW23552 -	0x3A00	Word Address - 23552
	GMW24576 -	0x3C00	Word Address - 24576
	GMW25600 -	0x3E00	Word Address - 25600
	GMW26624 -	0x4200	Word Address - 26624
	GMW24648 -	0x4400	Word Address - 27648
GMW28672 -	0x4600	Word Address - 28672	

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Device	Word Address	Device Address	Address Code
Special Latch Register	GMW29696 -	0x4800	Word Address - 29696
	GMW30720 -	0x4A00	Word Address - 30720
	GMW31744 -	0x4C00	Word Address - 31744
	GMW32768 -	0x4E00	Word Address - 32768
	GMW33792 -	0x5000	Word Address - 33792
	GMW34816 -	0x5200	Word Address - 34816
	GMW35840 -	0x5400	Word Address - 35840
	GMW36864 -	0x5600	Word Address - 36864
	GMW37888 -	0x5800	Word Address - 37888
	GMW38912 -	0x5A00	Word Address - 38912
	GMW39936 -	0x5C00	Word Address - 39936
	GMW40960 -	0x5E00	Word Address - 40960
	GMW41984 -	0x6000	Word Address - 41984
	GMW43008 -	0x6200	Word Address - 43008
	GMW44032 -	0x6400	Word Address - 44032
	GMW45056 -	0x6600	Word Address - 45056
	GMW46080 -	0x6800	Word Address - 46080
	GMW47104 -	0x6A00	Word Address - 47104
	GMW48128 -	0x6C00	Word Address - 48128
	GMW49152 -	0x6E00	Word Address - 49152
	GMW50176 -	0x7000	Word Address - 50176
	GMW51200 -	0x7200	Word Address - 51200
	GMW52224 -	0x7400	Word Address - 52224
	GMW53248 -	0x7600	Word Address - 53248
	GMW54272 -	0x7800	Word Address - 54272
	GMW55296 -	0x7A00	Word Address - 55296
	GMW56320 -	0x7C00	Word Address - 56320
	GMW57344 -	0x7E00	Word Address - 57344
	GMW58368 -	0x8200	Word Address - 58368
	GMW59392 -	0x8400	Word Address - 59392
	GMW60416 -	0x8600	Word Address - 60416
	GMW61440 -	0x8800	Word Address - 61440
	GMW62464 -	0x8A00	Word Address - 62464
	GMW63488 -	0x8C00	Word Address - 63488
GMW64512 -	0x8E00	Word Address - 64512	

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Device	Word Address	Device Address	Address Code
Input Register	GIW0000 -	0x2000	Word Address
	GIW0400 -	0x2200	Word Address - 1024
	GIW0800 -	0x2400	Word Address - 2048
	GIW0C00 -	0x2600	Word Address - 3072
	GIW1000 -	0x2800	Word Address - 4096
	GIW1400 -	0x9E00	Word Address - 5120
	GIW1800 -	0xA000	Word Address - 6144
	GIW1C800 -	0xA200	Word Address - 7168
	GIW2000 -	0xA400	Word Address - 8192
	GIW2400 -	0xA600	Word Address - 9216
	GIW2800 -	0xA800	Word Address - 10240
	GIW2C00 -	0xAA00	Word Address - 11264
	GIW3000 -	0xAC00	Word Address - 12288
	GIW3400 -	0xAE00	Word Address - 13312
	GIW3800 -	0xB000	Word Address - 14336
	GIW3C00 -	0xB200	Word Address - 15360
	GIW4000 -	0xB400	Word Address - 16384
	GIW4400 -	0xB600	Word Address - 17408
	GIW4800 -	0xB800	Word Address - 18432
	GIW4C00 -	0xBA00	Word Address - 19456
	GIW5000 -	0xBC00	Word Address - 20480
	GIW5400 -	0xBE00	Word Address - 21504
	GIW5800 -	0xC000	Word Address - 22528
	GIW5C00 -	0xC200	Word Address - 23552
GIW6000 -	0xC400	Word Address - 24576	
GIW6400 -	0xC600	Word Address - 25600	
GIW6800 -	0xC800	Word Address - 26624	
GIW6C00 -	0xCA00	Word Address - 27648	
GIW7000 -	0xCC00	Word Address - 28672	
GIW7400 -	0xCE00	Word Address - 29696	
GIW7800 -	0xD000	Word Address - 30720	
GIW7C00 -	0xD200	Word Address - 31744	
LS Area	LS0 -	0x4000	Word Address

■ Inverter

	Device	Word Address	Device Code	Address Code
Bit Device	Bit Register	BR0000 ~ BR03FF	8200	Word Address
		BR0400 ~ BR07FF	8400	
		BR0800 ~ BR0BFF	8600	
Word Device	Register	0000 ~ 03FF	0200	
		0400 ~ 07FF	0400	
		0800 ~ 0BFF	0600	
	LS Area	LS0000 ~	4000	